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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/577,701	04/28/2006	Kazunori Iwakura	023174-0162	3176		
22428 7590 01/09/2008 FOLEY AND LARDNER LLP			EXAMINER			
SUITE 500			BULLOCK, IN SUK C			
3000 K STREE WASHINGTO			ART UNIT	PAPER NUMBER		
	,		1797			
			MAIL DATE	DELIVERY MODE		
			01/09/2008	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	n No.	Applicant(s)				
Office Action Summary		10/577,70	!	IWAKURA ET AL.				
		Examiner		Art Unit				
		In Suk Bulle	ock	1797				
	The MAILING DATE of this communicatio	on appears on the	cover sheet with the	correspondence ad	idress			
Period fo	• •			(C) CD THIRTY (10) DAYO			
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING assions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory are to reply within the set or extended period for reply will, by reply received by the Office later than three months after the end patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THI CFR 1.136(a). In no ever ion. period will apply and will r statute, cause the appli	S COMMUNICATIOnt, however, may a reply be to expire SIX (6) MONTHS from the cation to become ABANDON	N. mely filed n the mailing date of this c ED (35 U.S.C. § 133).				
Status								
1) 🛛	Responsive to communication(s) filed on	28 April 2006.						
·	This action is FINAL . 2b) This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice ur	nder <i>Ex parte Qua</i>	ayle, 1935 C.D. 11, 4	153 O.G. 213.				
Disposit	ion of Claims							
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.								
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)[Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-11</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction a	and/or election re	quirement.					
Applicat	ion Papers							
9)□	The specification is objected to by the Exa	aminer.						
10)	The drawing(s) filed on is/are: a)	accepted or b)[objected to by the	Examiner.				
	Applicant may not request that any objection	to the drawing(s) b	e held in abeyance. So	ee 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)[The oath or declaration is objected to by t	the Examiner. No	te the attached Offic	e Action or form P	TO-152.			
Priority (under 35 U.S.C. § 119							
12)🖂	Acknowledgment is made of a claim for fo	oreign priority und	ler 35 U.S.C. § 119(a	a)-(d) or (f).				
a)	⊠ All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International E							
* (See the attached detailed Office action for	a list of the certif	ied copies not receiv	rea.				
Attachmer	nt(s)		_					
	ce of References Cited (PTO-892)	40)	4) Interview Summar Paper No(s)/Mail I					
3) X Infor	ce of Draftsperson's Patent Drawing Review (PTO-9/ mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date <u>4/28/06</u> .	40)		Patent Application				

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DETAILED ACTION

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-11 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-10 and 18 of copending Application No. 10/577,701. Although the conflicting claims are not identical, they are not patentably distinct from each other because Application '701 is directed to trimerizing ethylene employing a catalyst comprising a tantalum compound and an organic metal compound such as tetraisobutyltin. Claims 1, 4 10 and 18 in Application '701 encompass claims 1, 10 and 11 in the instant application.

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Because the limitation 4 moles or less and 2 moles or less as recited in present application may be interpreted to include zero, the silence of Application '701 with regard to water or molecular oxygen being contained in the process is deemed to read upon the claimed limitation in the present application.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 6,344,594 to Sen et al. (hereinafter "Sen").

Sen discloses trimerizing ethylene to produce 1-hexene in the presence of a tantalum-based catalyst (col. 1, lines 16-19). The catalyst comprises an effective amount of a tantalum compound such as TaCl₅ and an alkylating component comprising a metal hydrocarbyl compound such as tetramethyltin (col. 1, line 66 to col. 2, line 22).

It is noted that the present claimed invention recites 4 moles or less of water or 2 moles or less of molecular oxygen which may be interpreted to include 0. Absence of water or molecular oxygen in Sen's disclosure is deemed to read upon the claimed limitation with regard to water or molecular oxygen.

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Thus, claims 1-11 are deemed to be anticipated by Sen.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to In Suk Bullock whose telephone number is 571-272-5954. The examiner can normally be reached on Monday - Friday 6:00-2:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

J. Bullock